

IN THE CLAIMS

1. (Original) A medical treatment device comprising:

a treatment unit and a monitor unit positioned together at a treatment location;

said treatment unit including components that deliver medical treatment to a patient;

said monitor unit being signally connected to said treatment unit by means of a one-way communication mechanism such that said monitor unit are prevented from affecting the state of said treatment unit;

said monitor unit receiving data from said treatment unit and outputting at least data relating to a status of a treatment being delivered by said treatment unit.

2. (Original) A device as in claim 1, wherein said treatment unit and said monitor unit are housed together in a single housing.

3. (Original) A device as in claim 1, wherein said treatment unit and said monitor are connected to a common control panel with inputs and outputs, each connected such that any signals form said monitor unit are prevented from affecting a state of said treatment unit.

4. (Original) A device as in claim 3, wherein said treatment unit and said monitor unit and said control panel are located within a common housing.

5. (Canceled)

6. (Currently Amended) A medical treatment device, comprising:

a treatment machine with sensors and actuators configured to multiplex status information;

a monitor device having a programmable processor with a memory, said processor being configured to control functions, including data synthesis and display, of said monitor device responsively to software run by said programmable processor;

a one-way communications channel providing communications between said treatment machine and said monitor device, such that said treatment machine status is prevented from being affected by said software;

said treatment machine sensors and actuators being configured to apply data signals to said one-way communications channel, said processor being configured to control said functions responsively to said data signals;

wherein the monitor device provides at least one enhanced information not provided by the treatment machine.

7. (Original) A device as in claim 6, wherein said treatment machine and monitor device share a common housing.

8. (Original) A device as in claim 6, wherein said one-way communications channel is wireless.

9-10. (Canceled)

11. (New) A medical treatment device comprising:

a unitary treatment and monitoring device with separate control systems for treatment and pure monitoring functions including a treatment unit and a monitor unit fixedly positioned together at a treatment location;

said treatment unit including components that deliver medical treatment to a patient including a control panel that is physically separate from the monitoring device;

said monitor unit being signally connected to said treatment unit by means of a one-way communication channel such that said monitor unit is prevented from affecting the state of said treatment unit;

said monitor unit receiving data from said treatment unit and outputting at least data relating to a status of a treatment being delivered by said treatment unit.

12. (New) A device as in claim 11, wherein said treatment unit and said monitor unit are housed together in a single fixture.

13. (New) A device as in claim 11, wherein said control panel comprises physically separate components that are connected by a one-way communications channel.

14. (New) A device as in claim 11, wherein the monitoring unit and the treatment unit include programmable processors and instruction memories which are signally isolated from each other except for the one-way communication channel.

15. (New) A medical treatment device, comprising:

a medical treatment unit with a patient interface that delivers a treatment to a patient, status indicators, and operator controls to control the treatment delivered to the patient;

a status device with operator controls and status indicators configured to receive status information via a one-way data channel connecting the medical treatment unit and the status device;

the medical treatment unit and status device having separate programmable controllers, which include respective memories, that are isolated except for the one-way data channel, whereby any changes in the programming of the status device controller, or actuation of the operator controls thereof, cannot affect the operation of the medical treatment unit or the treatment delivered thereby;

the status device providing at least one enhanced information not provided by the medical treatment unit;

the medical treatment unit and the status device being configured to be co-located and fixed at a treatment location.

16. (New) A device as in claim 1, wherein the monitor unit provides at least one enhanced information not provided by the treatment unit.

17. (New) A device as in claim 9, wherein the monitor control and display device provides at least one enhanced information not provided by the blood treatment unit.

18. (New) A device as in claim 11, wherein the monitor unit provides at least one enhanced information not provided by the treatment unit.